Provided by the Publisher				Provided by the Publisher
ISBN - **0495106194**		Publisher - **Thomson Learning**		
Essentials of College Physics				
Type - P1	Author - Serway/ Faughn/Vuille			
Copyright - 2006	Edition - 1st	Readability -	10.3 Flesch-Kincaid	
Course - Physics		Grade(s) -	9,10,11,12	
Teacher Edition ISBN if applicable			0495107859	

Overall Recommendation:

☒ **Recommended as Basal**

Overall Strengths, Weaknesses, Comments:

This text includes numeorus opportunities for students to practice concepts and applications through the use of problems. The are numerous illustration and sample problems used throughout the chapters to assist student learning. The web based interactive component will also assist in student mastery of information and materials.

CRITERIA
This basal resource …

A. Encompasses KY Content Standards & Grade Level Expectations	☒ **Strong Evidence** ☐ **Moderate Evidence** ☐ **Little or No Evidence**

☒ Text is designed to be used in an elective course outside the Program of Studies

1) Includes the 7 Big Ideas of science to the following extent:

a)	Structure and Transformation of Matter	☐ Strong	☐ Moderate	☐ Little	☒ N/A
b)	Motion and Forces	☒ Strong	☐ Moderate	☐ Little	☐ N/A
c)	The Earth and the Universe	☐ Strong	☐ Moderate	☐ Little	☒ N/A
d)	Unity and Diversity	☐ Strong	☐ Moderate	☐ Little	☒ N/A
e)	Biological Change	☐ Strong	☐ Moderate	☐ Little	☒ N/A
f)	Energy Transformation	☐ Strong	☒ Moderate	☐ Little	☐ N/A
g)	Interdependence	☐ Strong	☐ Moderate	☐ Little	☒ N/A

2) Addresses content-specific enduring understandings from the related Program of Studies standards. ☒ Strong ☐ Moderate ☐ Little ☐ N/A

3) Addresses content-specific skills and concepts from the related Program of Studies standards. ☒ Strong ☐ Moderate ☐ Little ☐ N/A

4) **Content addressed is current, relevant and non-trivial** ☒ Strong ☐ Moderate ☐ Little ☐ N/A

5) **Provides opportunities for critical thinking/reasoning** ☒ Strong ☐ Moderate ☐ Little ☐ N/A

6) **Strengths, Weaknesses, Comments:**
- Specific strengths-which areas/concepts are covered exceptionally well?
- Specific weaknesses-which areas/concepts would likely require supplementing?

This text represents a standard introductory physics program which may be easily adaptable to either a contemporary or classical approach. The approach the authors take in this program builds on proven content using a variety of system components which make this an integrated , interrelated program.

B. Functionality & Suitability	☐ **Strong Evidence** ☒ **Moderate Evidence** ☐ **Little or No Evidence**

1) **Suitability** ☐ Strong ☒ Moderate ☐ Little ☐ N/A

- Should be suitable for use with a diverse population and is free of bias regarding race, age, ethnicity, gender, religion, social and/or geographic environment; is free of stereotyping or bias of any kind.

2) **Content quality** ☒ Strong ☐ Moderate ☐ Little ☐ N/A

- Free from factual errors
- Content is presented conceptually when possible—more than a mere collection of facts
- Content included accurately represents the knowledge base of the discipline
- Theories/scientific models contained represent a broad consensus of the scientific community

3) **Connections to Literacy** ☐ Strong ☒ Moderate ☐ Little
Note: may apply to either student or teacher editions

- Employs a variety of reading levels and is grade/level appropriate
- Contains pre, during, post reading activities
- Provides opportunities for summarizing, reviewing, and reinforcing vocabulary skills and concepts at multiple levels of difficulty for a variety of learning styles.
- Student text provides opportunity to integrate reading and writing
- Uses vocabulary that is age and content appropriate
- Focuses on critical vocabulary vs. extensive lists
- Identifies key vocabulary through definitions in both text and glossary
- Engaging text- does the text facilitate learning?
- Does understanding the text require having performed the imbedded activities?

4) **Connections to Technology** ☒ Strong ☐ Moderate ☐ Little

- Integrates technology and reflects the impact of technological advances
- Uses technology in the collection and/or manipulation of authentic data

5) Support for Diverse Learners ☐ Strong ☒ Moderate ☐ Little

- Provides support for ESL students
- Provides support for differentiation of instruction in diverse classrooms
  Note: may apply only to teacher edition

6) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

While this text presents the standard physics content, there are ample opportunities to support diverse learners through reinforcement via the available technology. No evidence to assist ESL students was observed.

C. Supports Inquiry and Skill Development	☒ **Strong Evidence** ☐ **Moderate Evidence** ☐ **Little or No Evidence**

1) Promotes Inquiry, research and Application of Learning ☒ Strong ☐ Moderate ☐ Little

- Provides opportunities for inquiry and research that includes activities such as self-selecting topics, formulating authentic questions, gathering information, researching resources, observing, interviewing, and evaluating information, analyzing and synthesizing data and communicating findings and conclusions.
- Requires students to use higher-level cognitive skills (analysis, synthesis, evaluation, etc.)
- Provides activities and projects for students to deepen their knowledge and cultivate and strengthen problem-solving and decision-making skills.
- Provides opportunities for application of learned concepts.
- Uses a variety of relevant charts, graphs, diagrams, time lines, and other illustrations to invite and motivate students to engage in discussion, problem solving, and other high-order thinking skills.
- Emphasizes conceptual understandings that invite students to predict, conclude, evaluate, develop and extend ideas to support reasoning.
  Note: may apply to either teacher or student edition

2) Skill Development ☒ Strong ☐ Moderate ☐ Little

- Provides opportunities to make sense of data
- Provides opportunities for critical thinking and reasoning (analyze arguments, distinguish fact/opinion, recognize bias)
- Provides opportunities to examine a range of types of evidence
- Contains embedded activities (or extensions) that emphasize use of technology for problem solving
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

A wide variety of abundant opportunities for problem-solving is found throughout this text. While true inquiry does not comprise much of this program, there is sufficient opportunities for students to gain conceptual understanding as well as appreciate the relevant application of physics to our everyday lives through numerous examples

which are explained in detail.

D. Supports Best Practices of Teaching and Learning	☒ Strong Evidence ☐ Moderate Evidence ☐ Little or No Evidence

1) Engages Students ☒ Strong ☐ Moderate ☐ Little

- Includes content geared to the needs, interests, and abilities of students
- Engages and motivates students using components such as real-life situations, simulations, experiments, and data gathering.
- Includes information and activities that assist students in seeing relevance of concepts (where appropriate) to their own lives and experiences
- Provides a variety of strategies, activities, and materials to enhance student learning at the appropriate learning levels
- Activities are truly congruent to the concepts addressed, not merely correlated
  Note: may apply to either teacher or student edition

2) Uses Assessment to Inform Instruction ☐ Strong ☒ Moderate ☐ Little

- Includes multiple means of assessment as an integral part of instruction
- Provides evaluation measures in the teacher edition that supports differentiated learning activities
- Embedded assessments reflect a variety of Depth of Knowledge levels
  Note: may apply to either teacher or student edition

3) Strengths, Weaknesses, Comments:

- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards

The standard assessment tools (end-of-chapter questions, test banks, quick quizzes) are available. The physics content is enhanced by the author's use of real-life situations and use of a variety of learning strategies in addition to providing problems identified in various levels of difficulty.

E. Has an Organization/ Format that Supports Learning and Teaching	☒ Strong Evidence ☐ Moderate Evidence ☐ Little or No Evidence

1) Organizational Quality ☒ Strong ☐ Moderate ☐ Little

- Print and/or electronic materials present minimal barriers to learners
- Presents chapters/lessons in an organized and logical sequence
- Provides clearly stated objectives for each lesson.
- Uses text features (e.g., titles, headings, subheadings, review questions, goals, objectives, space, print, type size, color) to enhance readability.
- Makes use of various forms of media (e.g., CD's, recordings, videos, cassette tapes, computer

software, web-based components) as either student or teacher resources
- Includes clear, accurate, appropriate and clearly explained illustrations and/or graphics that reinforce content standards.
- Incorporates a glossary, footnotes, recordings, pictures, and/or tests that aid pupils and teachers in using the book effectively
- Uses grade-appropriate type size

Included media are durable, easy to use and have technical merit
- Construction appears to be durable and able to withstand normal use

2) Essential Components (beyond student and teacher text) ☒ Strong ☐ Moderate ☐ Little

- Items identified as essential components support the learning goals and concept coverage of the basal

3) Strengths, Weaknesses, Comments:
- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

The text is organized in such a manner as to be logical for the student and teacher with new concepts building on previously covered concepts from chapter to chapter. There are numeorus illustrations and graphics used throughout in a manner that allows students to better understand the problem setup being described. Mulitple media forms are limited to the use of web based interactions and text based sources. Clear objectives are not stated for each chapter in the student edition but chapter outlines are provided at the beginning of each chapter in the student text edition.

F. Has available Ancillary/ Gratis Materials *Note: The decision whether to recommend or not recommend this resource as a basal should not be influenced by Section F*	☒ **Strong Evidence** ☐ **Moderate Evidence** ☐ **Little or No Evidence**

1) Ancillary/Gratis Materials
- Coordinates teacher resources easily with student material (e.g., accompaniments included, student pages shown, instructional technology indicated).
- Are well-organized and easy to use
- Provide substantive learning opportunities and are congruent with student learning goals
- Provide opportunities for high-level thinking, assessment, and/or problem solving

2) Strengths, Weaknesses, Comments:
- Reviewers may provide page numbers to point out specific strong examples for individual evaluation standards.

Available ancillary/gratis materials will assist in the coordination, planning, teaching, and learning for this text. Test banks, solutions manuals, and media manager will assist in teacher preparation. It should be noted that while there is a student lab manual available to supplement the text, it is at an additonal cost.